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**PATENT APPLICATION****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q87174

Hiroshi MATSUI, et al.

Appln. No.: 10/529,818

Group Art Unit: 2812

Confirmation No.: 5691

Examiner: Not Yet Assigned

Filed: March 30, 2005

For: ELECTRODE SUBSTRATE, PHOTOELECTRIC CONVERSION ELEMENT,  
CONDUCTIVE GLASS SUBSTRATE AND METHOD OF MANUFACTURING THE  
SAME, AND DYE-SENSITIZED SOLAR CELL

**REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT**

ATTN: Office of Initial Patent Examination  
Filing Receipt Correction  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

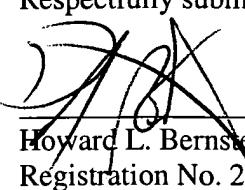
Sir:

We enclose a copy of the Official Filing Receipt for the above-identified application and request the following correction:

FILING OR 371(c) DATE : 03/31/2005 03/30/2005

Verification for the requested correction is indicated on the Application Transmittal and USPTO Date Stamped Filing Receipt filed March 30, 2005, copies of which are enclosed.

Respectfully submitted,

  
Howard L. Bernstein  
Registration No. 25,665

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

Date: January 6, 2006



## UNITED STATES PATENT AND TRADEMARK OFFICE

O I P E IAP88  
JAN 06 2006  
UNITED STATES PATENT & TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/529,818	03/31/2005	2812	2450	Q87174	10-	34-	6-

03/30/2005

23373  
SUGHRUE MION, PLLC  
2100 PENNSYLVANIA AVENUE, N.W.  
SUITE 800  
WASHINGTON, DC 20037

CONFIRMATION NO. 5691

**FILING RECEIPT**

**\*OC000000016833260\***

\*OC000000016833260\*

Date Mailed: 08/25/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Hiroshi Matsui, Tokyo, JAPAN;  
Kenichi Okada, Tokyo, JAPAN;  
Takuya Kawashima, Tokyo, JAPAN;  
Nobuo Tanabe, Tokyo, JAPAN;  
Tetsuya Ezure, Tokyo, JAPAN;

**Assignment For Published Patent Application**

Fujikura Ltd, Tokyo, JAPAN

**Power of Attorney:** The patent practitioners associated with Customer Number 23373. -

**Domestic Priority data as claimed by applicant**

This application is a 371 of PCT/JP03/12738 10/03/2003

**Foreign Applications**

JAPAN 2002291219 10/03/2002  
JAPAN 2002306723 10/22/2002  
JAPAN 2002328109 11/12/2002  
JAPAN 2002328566 11/12/2002  
JAPAN 2002305269 08/28/2003

**Projected Publication Date:** 12/01/2005

**Non-Publication Request:** No

**Early Publication Request:** No

**Title**

Electrode substrate, photoelectric conversion element, conductive glass substrate and production method therefo, and pigment sensitizing solar cell —

**Preliminary Class**

438

## **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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### **LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where

the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q87174

Hiroshi MATSUI, et al.

Appln. No.: 10/529,818

Group Art Unit: 2812

Confirmation No.: 5691

Examiner: Not Yet Assigned

Filed: March 30, 2005

For: ELECTRODE SUBSTRATE, PHOTOELECTRIC CONVERSION ELEMENT,  
CONDUCTIVE GLASS SUBSTRATE AND METHOD OF MANUFACTURING THE  
SAME, AND DYE-SENSITIZED SOLAR CELL

**REQUEST FOR CORRECTED NOTICE OF ACCEPTANCE OF APPLICATION UNDER  
35 U.S.C. § 371 AND 37 C.F.R. § 1.495**

ATTN: Office of Initial Patent Examination  
Filing Receipt Correction

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Notice of Acceptance of Application under 35 U.S.C. 371 and CFR 1.495 for the above-identified application and request the following correction:

DATE OF RECEIPT OF 35 U.S.C. § (c)(1), (c)(2) and (c)(4) REQUIREMENTS :

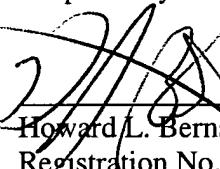
03/31/2005 03/30/2005

DATE OF COMPLETION OF ALL 35 U.S.C. § 371 REQUIREMENTS :

03/31/2005 03/30/2005

Verification for the requested correction is indicated on the Application Transmittal and USPTO Date Stamped Filing Receipt filed March 30, 2005, copies of which are enclosed.

Respectfully submitted,

  
Howard L. Bernstein  
Registration No. 25,665

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: January 6, 2006



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/529,818	Hiroshi Matsui	Q87174

INTERNATIONAL APPLICATION NO.

PCT/JP03/12738

I.A. FILING DATE	PRIORITY DATE
10/03/2003	10/03/2002

23373  
SUGHRUE MION, PLLC  
2100 PENNSYLVANIA AVENUE, N.W.  
SUITE 800  
WASHINGTON, DC 20037

SEP 01 2005

CONFIRMATION NO. 5691

371 ACCEPTANCE LETTER

\*OC000000016833261\*

\*OC000000016833261\*

Date Mailed: 08/25/2005

### NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

03/31/2005 03/30/2005

DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and  
(c)(4) REQUIREMENTS

03/31/2005 03/30/2005

DATE OF COMPLETION OF ALL 35 U.S.C. 371  
REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Copy of the International Application filed on 03/31/2005
- Copy of the International Search Report filed on 03/31/2005
- Information Disclosure Statements filed on 03/31/2005
- Oath or Declaration filed on 03/31/2005
- Request for Immediate Examination filed on 03/31/2005
- U.S. Basic National Fees filed on 03/31/2005
- Assignment filed on 03/31/2005
- Power of Attorney filed on 03/31/2005

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

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PAULETTE R KIDWELL  
Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

FORM PCT/DO/EO/903 (371 Acceptance Notice)



**Howard L. Bernstein**  
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T 03.5220.0200  
F 03.5220.0222

[www.sughrue.com](http://www.sughrue.com)

March 30, 2005

PCT/JP03/12738  
-filed October 3, 2003

**MAIL STOP PCT**  
Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

Re: Application of Hiroshi MATSUI, Kenichi OKADA, Takuya KAWASHIMA, Nobuo TANABE, Tetsuya EZURE  
ELECTRODE SUBSTRATE, PHOTOELECTRIC CONVERSION ELEMENT,  
CONDUCTIVE GLASS SUBSTRATE AND METHOD OF MANUFACTURING  
THE SAME, DYE-SENSITIZED SOLAR CELL  
**Assignee: FUJIKURA LTD.**  
Our Ref: Q87174

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- a copy of the executed Declaration and Power of Attorney
  - an English translation of the International Application
  - 10 sheets of drawings - Figs. 1-27
  - a copy of the executed Assignment and PTO 1595 form
  - a copy of the ISR and a copy of each reference cited in the ISR
  - a PTO/SB/08 A & B (modified) listing the ISR references
  - a copy of the cover page of WO 2004/032274
  - it is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f)

In addition to the documents submitted herewith, it is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

**The Government filing fee is calculated as follows:**



National Stage Entry of PCT/JP03/12738  
Q87174  
Page 2

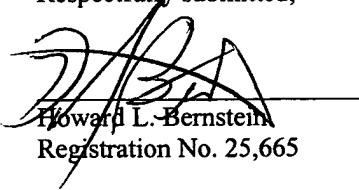
\* The international search fee for all claims was not paid to the USPTO, as the ISA, but the ISR is being submitted herewith.

Checks for the statutory filing fee of \$2450.00 and Assignment recordation fee of \$40.00 are attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this transmittal letter is attached.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Japan	2002-291219	March 10, 2002
Japan	2002-306723	October 22, 2002
Japan	2002-328109	November 12, 2002
Japan	2002-328566	November 12, 2002
Japan	2003-305269	August 28, 2003

Respectfully submitted,



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WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

Date: March 30, 2005

87

**REQUEST FOR EARLY NOTIFICATION OF SERIAL NUMBER**

NATIONAL STAGE ENTRY OF PCT/JP03/12738

Inventor(s): Hiroshi MATSUI, Kenichi OKADA, Takuya KAWASHIMA,  
Nobuo TANABE, Tetsuya EZURETitle: ELECTRODE SUBSTRATE, PHOTOELECTRIC CONVERSION  
ELEMENT ...

Atty Doc. #: Q87174 Client: SHIGA INTL PATENT OFFICE

Filing Date: March 30, 2005 # Pgs. Spec/Abst: 90/1 #Claims: 34# Dwg. Sheets: 10 Decl YES Prelim Amdt NOISR & REFS.: YES Pr Doc: YES Asgmt: YES Fee: \$2450/\$40 Check Attached  Charge to Deposit # 19-4880 Atty/Sec: HLBCOVER PAGE OF WO 2004/032274

SERIAL NO.:

CONF NO.:

